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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,421	05/04/2004	Isaac Cohen	9202-15	3420	
20792 75	590 09/06/2005		EXAMINER		
MYERS BIGEL SIBLEY & SAJOVEC			BERHANE,	BERHANE, ADOLF D	
PO BOX 37428	3				
RALEIGH, NC 27627			ART UNIT	PAPER NUMBER	
			2838 -		
			DATE MAILED: 09/06/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/709,421	COHEN, ISAAC			
		Examiner	Art Unit			
		Adolf Berhane	2838			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	1) Responsive to communication(s) filed on 14 July 2005.					
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) 🖂	Claim(s) <u>5-14</u> is/are pending in the application.					
·	4a) Of the above claim(s) is/are withdraw	n from consideration.				
5)	Claim(s) is/are allowed.					
6)🛛	Claim(s) <u>5-14</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9) 🗌 🤈	The specification is objected to by the Examiner	•				
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

DETAILED ACTION

Drawings

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application-by-application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: It was not executed in accordance with either 37 CFR 1.66 or 1.68.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 5-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Cohen (5,438,505).

Cohen discloses an adaptive control method for power converter in Figs. 1-5. With respect the output voltage of the power converter is regulated by causing the input current of the converter to be proportional to its output current and inversely proportional to its input voltage, Fig. 3 and equations $I_i = K * V_c$ and

 $V_c = I_o / V_o$ * V_i , therefore the input current is proportional to the output current and inversely proportional to input voltage.

With respect, the output current of the power converter is regulated by causing the input current of the converter to be proportional to its output voltage and inversely proportional to its input voltage, Fig. 2 and equations $P_i = V_i * I_i$, $P_i = K * V_c$ and $V_c = V_c * V_c$ Vi, therefore the input current is proportional to the output voltage and inversely proportional to the input voltage.

With respect to the regulation of the output voltage of the power converter by causing the input current of the converter to be proportional to its output current, Fig. 3 and equations I_i = K * V_c and V_c= I_o / V_o * V_i, therefore the input current is proportional to the output current.

With respect to the regulation of the output current of the power converter by causing the input current of the converter to be proportional to is output voltage, Fig. 2 and equations $P_i = V_i * I_i$, $P_i = K * V_c$ and $V_c = V_o/I_o$, therefore the input current of the converter is proportional to the output voltage.

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5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

6. Applicant's arguments filed 7/14/05 have been fully considered but they are not persuasive. Applicant argues that claims recite the input current of a power converter responsive to one of the output current or the output voltage, which may be less computationally intensive and consequently, may be more cost effective. Figs. 1-5 and the formula teach regulating the output current or current by controlling an input current or the power converter responsive to one of the outputs current or the output voltage of the power converter. With regard to the superior or cost effectiveness.

In re Fay, 146 USPQ 47 (CCPA 1965). The statutory requirement for patentability are

novelty, utility, and unobviousness. Proof that the invention is better or possesses advantages may be persuasive of existence of any or one of more of such requirements

Business Center (EBC) at 866-217-9197 (toll-free).

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and hence may be indicative of patentability, but Congress did not make such proof a prerequisite to patentability. Hence, applicant may not be required to show superiority over the reference compounds.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Adolf Berhane Primary Examiner Art Unit 2838